CyberView User Manual

RKP215-801
RKP217-801
RKP215-1601
RKP217-1601

2U Rackmount LCD monitor
Keyboard drawer with KVM switch

Version 2.0

20 March 2004

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1.0 General

1.1 Unit Introduction

Thank you for purchasing the 2U Rackmount LCD monitor keyboard drawer with KVM switch. The unit is a unique combined 19" rack mountable unit designed to provide access to and control of multiple servers from a single unit. The unit offers space saving leading edge, flexible, features and provide tangible benefits to the user while ensuring the reliability, cost efficiency and return on hardware investment expected for today's broadcast, enterprise and service provider networks.

1.2 Unit Photograph

1.3 Unit Features

- 15 or 17 inch TFT/LC active matrix color
- Built in OSD (On Screen Display) controlled by integral membrane keys
- Flexible keyboard selections, notebook type with touch pad mouse or Cherry type with trackball mouse, available in multiple languages
- Keyboard slide rails have friction stop positions to prevent accidental movement
- Built in 8 or 16 port KVM switch, cascade-able to 64 / 128 ports or servers
- Unique KVM integral membrane one button port selection
- KVM port selection through OSD Hot key menus
- Efficient cable management, the unit is supplied with 8 x 6ft screened VGA cables with combined PS2 mouse and keyboard connectors – refer to section 5.0 of this user manual
- Single external 12V 5A remote power adaptor, easy to replace and ensures only a single power source is required to the unit , reducing the capacity of UPS outputs for KVM switches required

1.4 Unit Packing Contents

Model Number	801	1601
RKP215 / 217 2U LCD Keyboard Drawer with KVM Unit	1	1
User Manual CD	1	1
Quick Reference Guide	1	1
AC to DC Power Adaptor	1	1
Standard 6ft 3 in 1 KVM cables (CD-6)	8	8
Rack Mount Kit	1	1

1.5 Important Information & Safeguards

- Please read these safety instructions carefully
- Keep this user manual for later reference
- Disconnect the unit from the mains input power supply source before cleaning
- Do not spray aerosol or liquid cleaners directly on the unit, use only a soft cloth for cleaning
- Clean the LCD only with a soft anti static cloth
- Avoid placing pressure on the LCD to prevent permanent damage
- Rest the unit on a reliable surface when installing, a drop or fall may cause injury
- Please note all cautions and warnings on the equipment
- Never open the unit. Only qualified personnel should open the unit
- Refer to section 10.0 of this user manual regarding recommended storage and operating conditions for the unit
- Refer to sections 11.0 and 12.0 of this user manual regarding troubleshooting of the unit
- Refer to section 13.2 of this user manual regarding improper use of the unit

1.6 Preparation for Use

- Carefully remove the unit from its packaging
- Please check that the unit and its accessories match the packing contents in section 1.4 of this user manual
- Please read this user manual thoroughly familiarising yourself with the unit
- Place the unit on a protected work surface and carefully slide open the keyboard drawer noting the friction stops on the slides to prevent movement of the keyboard whilst in use
- Carefully slide open and lift the LCD screen to a convenient viewing angle
- Plug up the DC power supply, whilst noting that the green LED on the external adaptor should now be lit
- You should now be able to see the LED lights on the unit functioning you could also follow section 2.0 to familiarise yourself with the OSD (On screen display) of the unit
- After removing the DC power input, carefully install the unit into the rack, noting section 1.5 of this user manual - important information and safe guards, and plug in all connecting hardware (ensure all connecting hardware is powered down for this stage of the install)
- Further information regarding the use of this unit can be found in the following sections of this user manual

2. LCD On Screen Display

2.1 Display & Navigation Using Membrane Keys

The On screen display built into the unit provides users with an efficient method of adjusting to the display input signal. This section explains clearly how to navigate the OSD using the membrane keys, shown below, that you will find on the unit to the right side of the LCD screen.

Exit	**Menu or sub menu**
Display	**OSD or scroll / select**
Input	**Value + or up / left scroll**
Input	**Value – or down / right scroll**
LCD	**Display On / Off**

2.1.1 To display the OSD

Simply press the key marked

2.1.2 To Select a Menu Item

Simply press the key to scroll

2.1.3 To Enter the Sub Menu

Simply press the key marked

2.1.4 To Change an Input Value

Simply use the key marked

2.1.5 To Save the setting

Simply press the key marked

2.1.6 To Exit the Main Menu

Simply use the key marked

2.2 Customizing the LCD Settings

2.2.1 Brightness / Contrast

To adjust brightness - follow steps 2.1.1 through 2.1.5

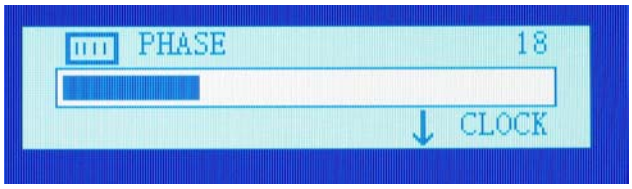
2.2.2 Auto Adjust

To auto adjust - follow steps 2.1.1 through 2.1.5

NOTE -: While the OSD Menu is NOT displayed the key acts as Auto Adjust

2.2.3 Phase / Clock

To optimize display qualities - follow the steps 2.1.1 through 2.1.5

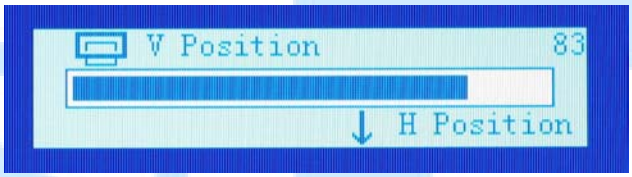


2.2.4 Horizontal Screen Position

To adjust horizontal screen position - follow the steps 2.1.1 through 2.1.5

2.2.5 Vertical Screen Position

To adjust horizontal screen position - follow the steps 2.1.1 through 2.1.5

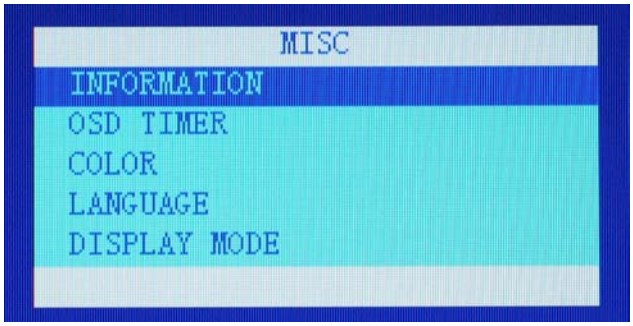


2.2.6 To reset to default factory setting

To reset - follow the steps 2.1.1 through 2.1.5

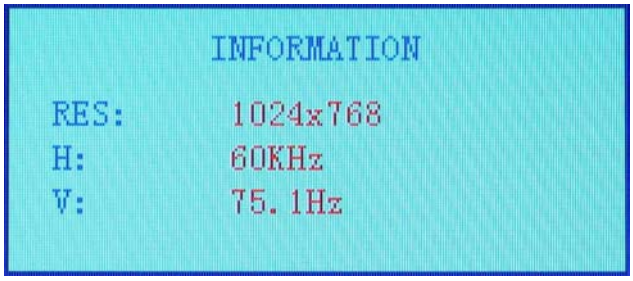
3. Miscellaneous Sub Menu

To select miscellaneous sub menu - follow the steps 2.1.1 through 2.1.5



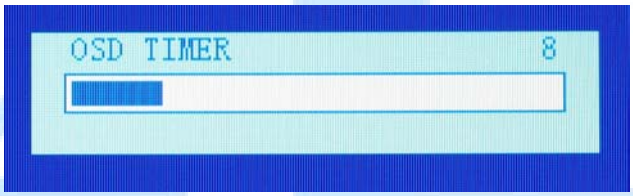
3.1.1 Information

To select information sub menu - follow the steps 2.1.1 through 2.1.5



3.1.2 OSD Timeout

To select OSD Timeout sub menu - follow the steps 2.1.1 through 2.1.5

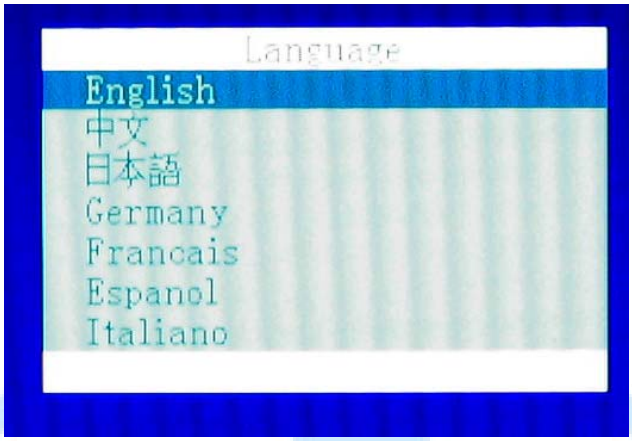


3.1.3 Color

To select Color sub menu - follow the steps 2.1.1 through 2.1.5

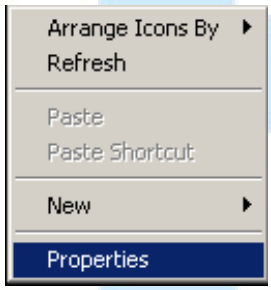
3.1.4 OSD language

To select the OSD language sub menu - follow the steps 2.1.1 through 2.1.5

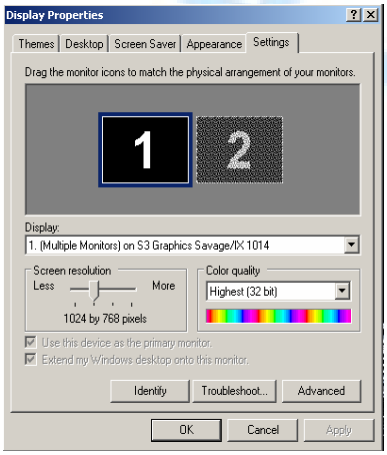


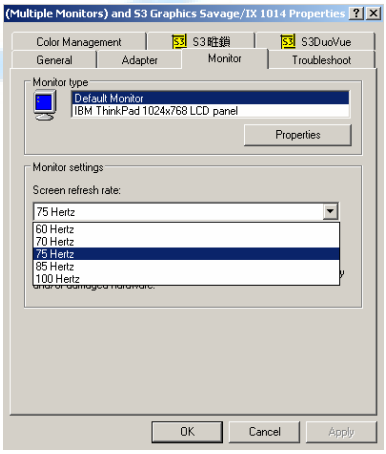
4. Setting OS Refresh Rate - Microsoft Windows®

On the windows desktop 'right click' the mouse key and then select 'properties'



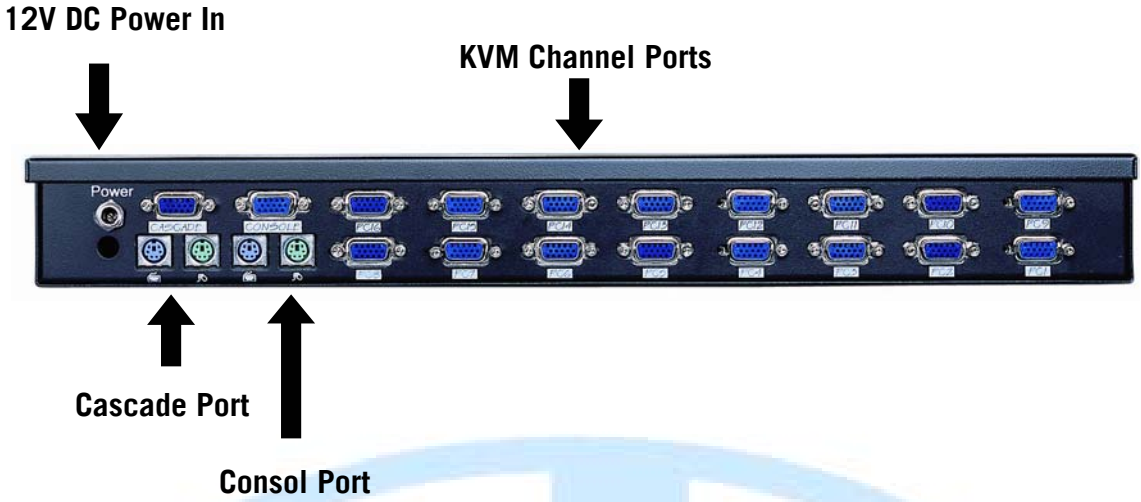
Select 'Settings' from the tab menu





Select 'Monitor' and then select a Screen refresh Rate of 75 Hertz – Press OK to save and exit

5. Connecting Your KVM Switch



- KVM Channel Port – to connect servers using 3 in 1 KVM cable
- Cascade Port – to connect to another KVM switch
- Consol Port – to be connected to previous bank (if exists) Cascade port

6. Cascading KVM Switches

Using 3 in 1 KVM cable connect from Bank 1's "Cascade port" to Bank 2's "Console port". When connected please press "Bank" & "Channel" button on the front of the KVM switch to reset the KVM

A maximum of 8 banks or 128 ports can be cascaded. Austin Hughes ranges of KVM switches are fully compatible with most vendors KVM switches.

Note – the maximum recommended distance between the KVM port and the server is 15ft, use Austin Hughes standard 3 in 1 KVM cable part number **CD15** shown below. To cascade between switches use Austin Hughes standard cable **CA15** the CA 15 cable has 2 x PS2 connections at both the ends of the cable.

7. KVM Navigation Using Membrane Keys

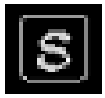
Membrane Keys built into the unit provide users an efficient method of changing KVM ports very quickly and accurately. This section explains clearly how to switch and monitor the KVM ports using the membrane keys that you will find on the CyberView unit underneath the LCD screen.

RED LED highlights 'Active Channel'

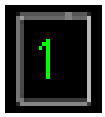
RED & GREEN LED highlights 'Active and On Line Channel'

Simply press this key to select a channel or port between 1-8

Simply press and hold together with a channel button to select ports 9-16



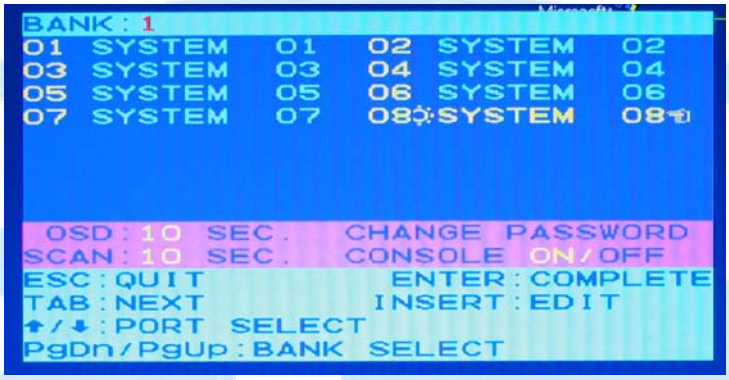
This LED box displays the Bank



Select Bank Button 1 - 8

8. KVM Navigation using On Screen Display & Hot keys

Hold down the **FN** key and press **Scroll** on your keyboard twice in succession - the OSD will be displayed for 10 Sec; this can be prolonged to 99 Sec



8.1 OSD Password

Hold down the **FN** key and press **Scroll** on your keyboard twice in succession – the OSD will be displayed for 10 Sec; this can be prolonged to 99 Sec

Select Change Password – the screen capture below will appear

Key in the unit default password 00000000

Enter the new password (8 digits max)

Re-Enter the new password

Dialog will now display – Changing Password Complete

8.2 Consol ON / OFF

If the Consol displays ON – any user can operate the unit

If the Consul displays OFF – the user must key in the current password to operate the unit

The Unit default setting is Consul OFF – the user must key in the current password to operate the unit

8.3 To reset the KVM to default setting using the membrane keys

Simply press the and channel buttons together

8.4 To select the previous channel

Simply press the Scroll on your keyboard twice in succession followed by the ↑ on your keyboard

8.5 To select the next channel

Simply press the Scroll on your keyboard twice in succession followed by the ↓ on your keyboard

Note – You may hold either arrow key to scan through channels

8.6 To select the previous bank

Simply press the Scroll on your keyboard twice in succession followed by the PgUp on your keyboard

8.7 To select a specific bank and channel

Simply press the Scroll on your keyboard twice in succession followed by the bank number and channel number on your keyboard

Example Scroll + Scroll + bank number (1-8 Max.) + channel number (01-16 Max.)

8.8 To Turn channel beeper on or off

Simply press the Scroll on your keyboard twice in succession followed by the B on your keyboard (default is beeper on)

8.9 To Auto scan channels

Simply press the Scroll on your keyboard twice in succession followed by the S on your keyboard (default scan time is 10 Secs. from channel to channel) – Press any key on your keyboard to stop scanning

8.10 To reset the KVM to default ROM setting

Simply press the Scroll on your keyboard twice in succession followed by the R on your keyboard (note -: THIS DOES NOT RESET THE PASSWORD)

8.11 To identify an active channel

Simply look for the ☼ symbol on the on screen display next to the channel designation

8.12 To assign a channel a name designation

Simply select the KVM OSD, see section 8.0 of this user manual, use the Tab key on your keyboard to select the default channel designation (e.g. SYSTEM 01) and press the INS key on your keyboard to edit the channel name designation, press ENTER on your keyboard when complete

Note -: the channel name designation should not exceed 8 characters

8.13 To find a channel by its name designation

Simply press the Scroll on your keyboard twice in succession followed by the F on your keyboard, type the channel name, see section *** of this user manual, press enter on your keyboard – the unit will begin searching from channel 1

9. LCD Technical Specification

LCD	**Size**	15"
	Screen Area	TFT Active Matrix
	Display Area	304.1mm (h) x 228.1mm (V)
	Contrast Ratio	300:1
	Viewing Angle	130 deg (H) z 115 deg (V) TYP
	Resolution	1024 x 768 XGA
	Pixel Pitch	0.297mm (H) x 0.297mm (W)
	Response Time	Tr = 5ms, TF = 20ms TYP
	Brightness	250 cd/m2
	Panel Color	16.2M Colors
	Back Light	4 Lamps
Video	**Synchronization**	Horizontal 48.36-60 KHz
	Range	Vertical 56-75 Hz
	Input Signal	Analog RGB 0.7Vp-p
Power Management		VESA DPMS
	Power	Micro on/off switch
	OSD Control	Brightness, Contrast, Color, H Position, V Position, Auto Config, OSD Adjust, Dither, etc
	Power Input	12V/5A DC Adaptor
	Video Input	15-Pin D-sub connector

LCD	**Size**	17"
	Screen Area	TFT Active Matrix
	Display Area	337:92mm (h) x 270.336mm (V)
	Contrast Ratio	350:1
	Viewing Angle	150 deg (H) z 125 deg (V) TYP
	Resolution	1280 x 1024 SXGA
	Pixel Pitch	0.264mm (H) x 0.264mm (W)
	Response Time	Tr = 5ms, TF = 20ms TYP
	Brightness	250 cd/m2
	Panel Color	16.7M Colors
	Back Light	4 Lamps
Video	**Synchronization**	Horizontal 31-69 KHz
	Range	Vertical 56-75 Hz
	Input Signal	Analog RGB 0.7Vp-p
Power Management		VESA DPMS
	Power	Micro on/off switch
	OSD Control	Brightness, Contrast, Color, H Position, V Position, Auto Config, OSD Adjust, Dither, etc
	Power Input	12V/5A DC Adaptor
	Video Input	15-Pin D-sub connector

10. KVM Technical Specification

PC Port	8 or 16
PC Port Connector (female)	HDDB 15Pin
Cascade Port (female)	PS/2 Keyboard mini DIN 6 Pin PS/2 Mouse mini DIN 6 Pin VGA HDDB 15Pin
PC Selection	OSD Manual Control, Manual soft key Control & Hot Key Control
7 Segment LCD	One Blank, Two PC Port LCD
OSD Control	Yes
Scan Intervals	5-99 secs
Keyboard Emulation	PS2
Mouse Emulation	PS2
VGA Resolution	1920 x 1440
Bandwidth	200 MHz
Cascade	8 levels
Maximum number of Ports	128
Housing material	Coated Steel
Power Adaptor	DC 12V 1 A or DC 9V 1A
Operating Temperature	0 - 40 deg
Storage Temperature	-20 / + 40 deg
Humidity	0 - 80 deg Non Condensing
Size	2U (44.5mm) (H) x 19" (W) Rack Mount

11. LCD Troubleshooting

11.1 The LCD does not function, the PC input is operational

- Ensure that the Power adaptor is securely plugged in at both ends and has power feed from the supply source; check that the Green led light is on on the adaptor unit
- Ensure the LCD is on by pressing the key
- Ensure that the LCD is pulled out past the micro switch threshold

11.2 The message 'Check Cable' appears on the LCD

- The VGA cable input cable is not connected properly

11.3 The message 'No Sync' appears on the LCD

- The message indicates that there is no input signals from the PC, make sure the PC is functioning and that the graphics card is installed correctly.

11.4 The message 'Signal out of Range' appears on the LCD

- This message indicates that the input signal is beyond the LCD capability – The maximum resolution for the screen is 1024 x 768 at 75 Hz Check PC and Operating System output refer to step 4.0

12. KVM Troubleshooting

12.1 The Keyboard does not work after boot up

- Ensure the PC output is OK by plugging a keyboard (101,102 or 104) directly into the PC port and testing

12.2 The Mouse is not detected during PC boot routine

- Ensure the PC output is OK by plugging a PS2 mouse directly into the PC port and testing
- Avoid moving the mouse whilst switching between KVM ports
- Avoid switching ports whilst shutting down the PC
- It is not recommended to reduce the scan time setting of the KVM switch to below 5 seconds – this may have an adverse effect on the switch recognizing the mouse connection.

13. Warranty

13.1 Period & Conditions

Warranty is from the date of sale of the unit, subject to the terms and conditions of the Austin Hughes Europe Authorised channel partner who supplied the unit, please refer to your authorised channel partner for terms & conditions

13.2 Manufacturers exclusions

13.2.1 Any Unit on which the Austin Hughes serial number has been defaced, modified or removed

13.2.2 Damage, deterioration, or malfunction resulting from – accident, misuse, neglect, fire, water, lightening, or other acts of nature

13.2.3 Unauthorised unit modification

13.2.4 Unauthorised unit repair, by other than an Austin Hughes Europe authorised channel partner

13.2.5 Damage to the unit caused by installation or removal, unless covered by Austin Hughes Europe channel partner services warranty

13.2.6 Use of unauthorised parts not meeting Austin Hughes Europe specifications

13.2.7 Other causes of damage unrelated to product defect including wear and tear

13.2.8 Damage to the unit caused by transit

14. Disclaimer

This information is subject to change without notice. Austin Hughes Europe accept no responsibility for damage or claims, resulting from misuse or misinterpretation of this information